

Schottky barrier diode

RB550EA

● Applications

Low current rectification

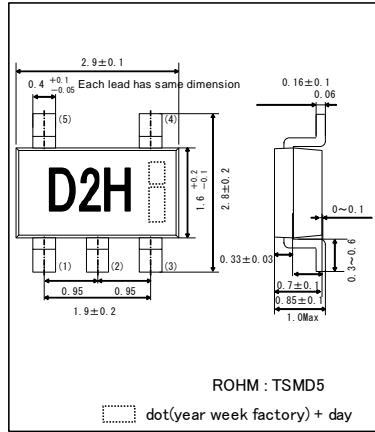
● Features

- 1) Small mold type. (TSMD5)
- 2) Low V_F , low I_R .
- 3) High reliability.

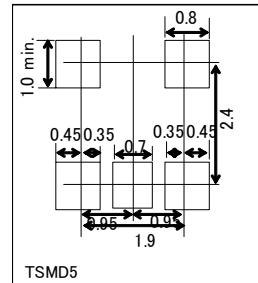
● Construction

Silicon epitaxial planar

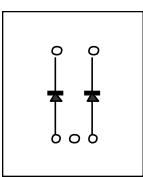
● External dimensions (Unit : mm)



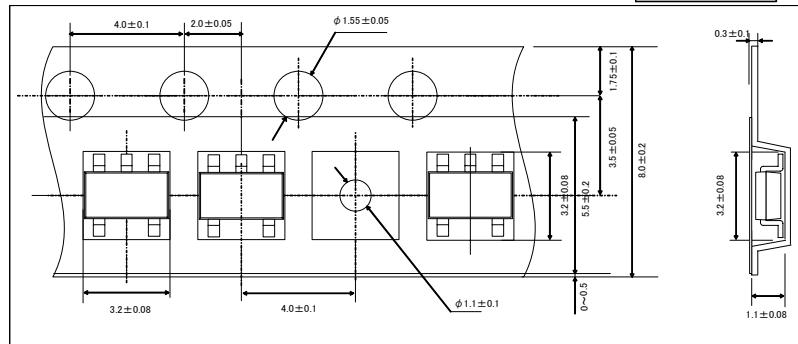
● Land size figure (Unit : mm)



● Structure



● Taping specifications (Unit : mm)



● Absolute maximum ratings (Ta=25°C)

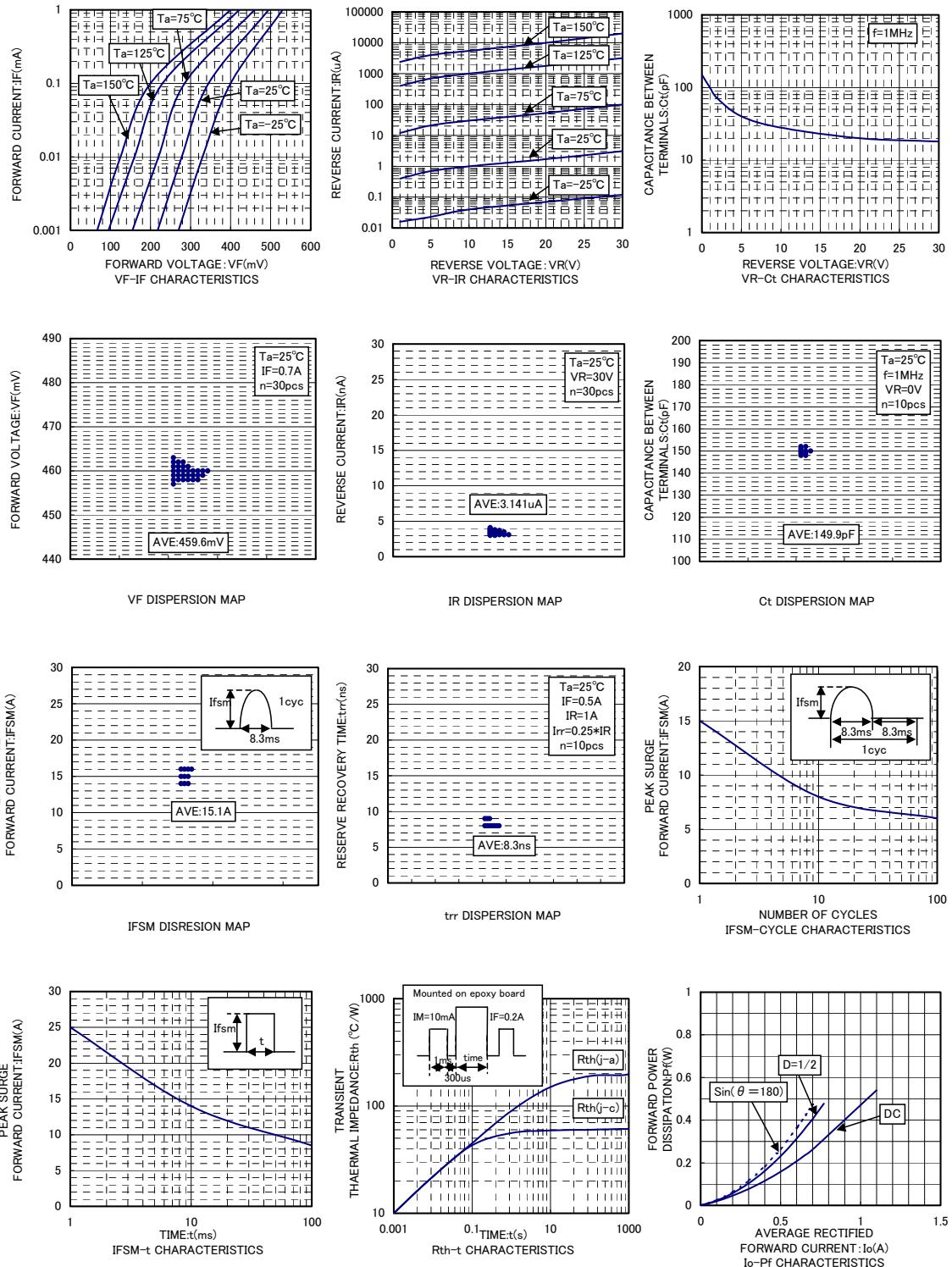
Parameter	Symbol	Limits	Unit
Reverse voltage (DC)	V_R	30	V
Average rectified forward current (*1)	I_o	0.7	A
Forward current surge peak (t=1msec)	I_{FSM}	12	A
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	-40 to +150	°C

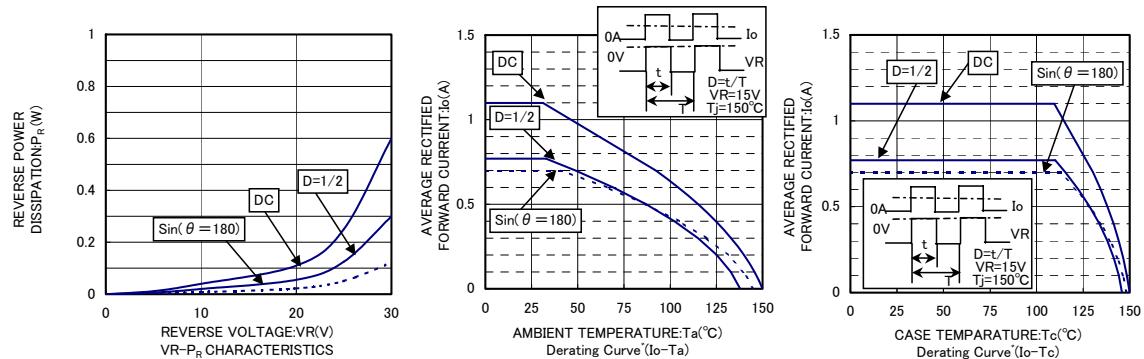
(*1) Rating of per diode.

● Electrical characteristics (Ta=25°C, Rating of per diode.)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_{F1}	0.39	0.45	0.49	V	$I_F=0.7A$
Reverse current	IR1	-	1	30.00	μA	$V_R=10V$
	IR2		5.0	50	μA	$V_R=30V$
ESD break down voltage	ESD	15	-	-	KV	$C=100pF, R=1.5K\Omega$ Forward and reverse : 1 times

Diodes

●Electrical characteristic curves ($T_a=25^\circ\text{C}$)



Appendix

Notes

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